Safety Data Sheet

9 Mix haloacetic acids in methyl tert-butyl

ether

Version: V2.0.0.1

Report No.: BWQ9215-2016-MSDS-US

Creation Date: 2025/10/11

Revision Date: -

*Prepared according to American OSHA HCS-2024 (29 CFR 1910.1200)



1 Identification

| Product identifier

•	
Product Name	9 Mix haloacetic acids in methyl tert-butyl ether
Cat No.	BWQ9215-2016
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable

Recommended use of the product and restrictions on use

Relevant identified uses	Please consult manufacturer.
Uses advised against	Please consult manufacturer.

Details of the supplier of the Safety Data Sheet

Name of the company	Weiyel Inc
Address of the company	Hedian Light Industrial Park, Chengguan Town, Shangcheng County, Xinyang City, Henan Province, China
Post code	465350
Telephone number	010-58103678
Fax number	010-84840368
E-mail address	info@weiyel.com

| Emergency phone number

Emergency phone number	010-58103678

2 Hazard(s) identification

Hazard classification according to 29 CFR 1910.1200

Flammable liquids	Category 2
Skin Corrosion/Irritation	Category 2
Sensitization - skin	Category 1
Serious eye damage/irritation	Category 2
Carcinogenicity	Category 1B

Label elements



Hazard statements

H225	Highly flammable liquid and vapour
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H350	May cause cancer

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| Precautionary statements

Prevention

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting] equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P261	Avoid breathing gas/mist/vapour/spray.
P264	Wash hands and other parts of the body (if related) thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Response

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P321	Specific treatment (see related instructions on the label).
P302+P352	IF ON SKIN: Wash with plenty of water.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	Small fire: CO ₂ , dry chemical, dry sand, alcohol-resistant foam; Large fire: water spray, fog or alcohol-resistant foam; Fire involving tanks, rail tank cars or highway tanks: Fight fire from maximum distance or use unmanned master stream devices or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out. Do not get water inside containers.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water [or shower].
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

Storage

P405	Store locked up.
P403+P235	Store in a well-ventilated place. Keep cool.
▲ Dianasal	

lenses, if present and easy to do. Continue rinsing.

Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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Other hazards

Not applicable.

| Hazard description

Physical and chemical hazards

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Health hazards

Inhaled	Drowsiness. Dizziness. Headache. Weakness. Unconsciousness.
Ingestion	Abdominal pain. Nausea. Vomiting. (Further see Inhalation).
Skin Contact	Dry skin. Redness.
Eye	Redness.

♦ Environmental hazards

Please refer	to 12th	chapter	of SDS.
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Composition/information on ingredients

Substance/mixture

Mixture

Component	CAS No.	EC No.	Concentration (wt, %)
tert-butyl methyl ether	1634-04-4	216-653-1	97.57
Chloroacetic acid	79-11-8	201-178-4	0.27
Bromoacetic acid	79-08-3	201-175-8	0.27
Dichloroacetic acid	79-43-6	201-207-0	0.27
Trichloroacetic acid	76-03-9	200-927-2	0.27
Bromochloroacetic acid	5589-96-8	-	0.27
Bromodichloroacetic acid	71133-14-7	-	0.27
Dibromoacetic acid	631-64-1	211-165-5	0.27
Dibromomonochloroaceti c acid	5278-95-5	-	0.27
Tribromoacetic acid	75-96-7	200-919-9	0.27

4 First-aid measures

Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Skin contact	Remove contaminated clothes. Rinse and then wash skin with water and soap.
Ingestion	Rinse mouth. Give a slurry of activated charcoal in water to drink. Do NOT induce vomiting. Refer for medical attention.
Inhalation	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.

9 1/11	x naioacetic acids in metnyl ter	t-butyl etner Version : v2.0.0.1 Revision Date : -		
	Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.		
Мо	st important symptoms/eff	fects, acute and delayed		
1	Substance accumulation, in long-term occupational expos	the human body, may occur and may cause some concern following repeated or sure.		
Indi	cation of any immediate r	nedical attention and special treatment needed		
1	Treat symptomatically.			
2	Symptoms may be delayed.			
5	Fire-fighting measure	es		
Ext	inguishing media			
Su	itable extinguishing media	Small fire: CO ₂ , dry chemical, dry sand, alcohol-resistant foam; Large fire: water spray, fog or alcohol-resistant foam; Fire involving tanks, rail tank cars or highwat tanks: Fight fire from maximum distance or use unmanned master stream devices or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out. Do not get water inside containers.		
Jnsu	itable extinguishing media	Large fire: avoid aiming straight or solid streams directly onto the product.		
Sı	pecific hazards arising fro	om the substance or mixture		
1		oisonous or corrosive gases.		
2	Development of hazardous of	combustion gases or vapor possible in the event of fire.		
3	May expansion or decompos	e explosively when heated or involved in fire.		
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		t and precautions for fire-fighters		
1	protective gear.	ained breathing apparatus (MSHA/NIOSH approved or equivalent) and full		
2	Fight fire from a safe distance	e, with adequate cover.		
3	Prevent fire extinguishing wa	ter from contaminating surface water or the ground water system.		
6	Accidental release m	easures		
Per	sonal precautions, protec	etive equipment and emergency procedures		
1	Fully encapsulating, vapor pr	rotective clothing should be worn for spills and leaks with no fire.		
2	Do not touch or walk through	spilled material.		
3	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.			
4	Use personal protective equipment, do not breathe gas/mist/vapour/spray.			
5	Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.			
6	Evacuate personnel to safe a	areas. Keep people away from and upwind of spill/leak.		
Enν	rironmental precautions			
1	Prevent further leakage or spillage if safe to do so.			
2	Discharge into the environme	nt must be avoided.		
Met	thods and materials for co	ontainment and cleaning up		
1	Do not touch or cross spills.			
2	· .	gency personnel wear a self-contained breathing apparatus with positive pressure		
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	and wear anti-corrosion clothing.	
3	Transfer to a tank truck or special collector with a corrosion-resistant pump.	
4	Do not touch broken containers and spills before putting on appropriate protective clothing.	
5	Cut off the source of the leak as much as possible.	
6	Keep leaks in a ventilated place.	
7	Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.	
8	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.	
9	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container.	

7 Handling and storage

| Precautions for safe handling

1	Handling is performed in a well ventilated place.
2	Wear suitable protective equipment.
3	Avoid contact with skin and eyes.
4	Keep away from heat/sparks/open flames/ hot surfaces.

Conditions for safe storage, including any incompatibilities

1	Keep containers tightly closed.
2	Keep containers in a dry, cool and well-ventilated place.
3	Keep away from heat/sparks/open flames/hot surfaces.
4	Store away from incompatible materials and foodstuff containers.

8 Exposure controls/personal protection

| Control parameters

Occupational exposure limit values

Component	Country/Region	Limit value -	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m³	ppm	mg/m³	
tert-butyl methyl ether	Permissible exposure standards for workers in the workplace	40	144	60	180	
	Australia	25	92	75	275	
	Canada - Ontario	40	-	-	-	
	European Union	50	183.5	100	367	
	New Zealand	25	92	75	275	
	USA - ACGIH	50	-	-	-	
Chloroacetic acid	Australia	0.3	1.2	-	-	
	Canada - Ontario	0.5	-	-	-	
	New Zealand	0.3	1.2	-	-	
	USA - ACGIH	0.5(inhalable fraction and	-	-	-	

		vapor)			
	Austria	1	4	1	4
	Belgium	0.5	2	-	-
Dichloroacetic acid	USA - ACGIH	0.5	-	-	-
	Belgium	0.5	2.7	-	-
	Germany (AGS)	0.2	1.1	0.2	1.1
	Germany (DFG)	0.2	1.1	0.2	1.1
	Ireland	0.5	-	-	-
	Latvia	-	4	-	-
Trichloroacetic acid	Permissible exposure standards for workers in the workplace	1	6.7	2	13.4
	Australia	1	6.7	-	-
	Canada - Ontario	0.5	-	-	-
	New Zealand	1	6.7	-	-
	USA - ACGIH	0.5	-	-	-
	USA - NIOSH	1	7	-	-

| Engineering controls

1	Ensure adequate ventilation, especially in confined areas.
2 Ensure that eyewash stations and safety showers are close to the workstation location.	

3 Use explosion-proof electrical/ventilating/lighting/equipment.

4 Set up emergency exit and necessary risk-elimination area.

| Personal protection equipment

General requirement	
Eye protection	Must wear appropriate safety goggles.
Hand protection	Must wear anti static chemical protective gloves.
Respiratory protection	Must wear appropriate personal respiratory protective equipment.
Skin and body protection	Must wear anti static chemical protective clothing and anti static shoes.

9 Physical and chemical properties and safety characteristics

| Physical and chemical properties

•	, , , , , , , , , , , , , , , , , , , ,	
	Appearance (physical state,	colorless liquid
	color, etc.)	
	Odor	No information available
	Odor threshold	No information available
	рН	No information available
M	lelting point/freezing point(°C)	-109 (tert-butyl methyl ether)

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Initial boiling point and boiling range(°C)	55 (tert-butyl methyl ether)
Flash point(Closed cup,°C)	-28 (tert-butyl methyl ether)
Evaporation rate	No information available
Flammability	No information available
Upper/lower explosive limits[%(v/v)]	Upper limit :15.1(tert-butyl methyl ether) ;Lower limit :1.6(tert-butyl methyl ether)
Vapor pressure	27kPa (20°C,tert-butyl methyl ether)
Vapor density(Air = 1)	3.0 (tert-butyl methyl ether)
Relative density(Water=1)	0.7 (tert-butyl methyl ether)
Solubility	42 g/L (20°C,tert-butyl methyl ether)
n-octanol/water partition coefficient	1.06 (tert-butyl methyl ether)
Auto-ignition temperature(°C)	375 (tert-butyl methyl ether)
Decomposition temperature(°C)	No information available
Kinematic viscosity	No information available

10 Stability and reactivity

| Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other
	chemical reactions.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous	No information available.
reactions	
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	No information available.
Hazardous decomposition	Under normal conditions of storage and use, hazardous decomposition products
products	should not be produced.

11 Toxicological information

Acute toxicity

Component	LD ₅₀ (oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation,4h)
Trichloroacetic acid	400mg/kg(Rat)	No information available	No information available
tert-butyl methyl ether	4000mg/kg(Rat)	No information available	84.999mg/L(Rat)
Bromoacetic acid	50mg/kg(Rat)	59.9mg/kg(Rabbit)	No information available
Chloroacetic acid	650mg/kg(Rat)	305mg/kg(Rat)	0.18mg/L(Rat)
Dichloroacetic acid	2820mg/kg(Rat)	803mg/kg(Rabbit)	No information available

Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP	OSHA Carcinogen List
tert-butyl methyl ether	Category 2B	Not Listed	Not Listed
Chloroacetic acid	Not Listed	Not Listed	Not Listed

Bromoacetic acid	Not Listed	Not Listed	Not Listed
Dichloroacetic acid	Category 2B	Category R	Not Listed
Trichloroacetic acid	Category 2B	Not Listed	Not Listed
Bromochloroacetic acid	Category 2B	Category R	Not Listed
Bromodichloroacetic acid	Not Listed	Category R	Not Listed
Dibromoacetic acid	Category 2B	Category R	Not Listed
Dibromomonochloroaceti c acid	Not Listed	Category R	Not Listed
Tribromoacetic acid	Not Listed	Category R	Not Listed

Others

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Skin corrosion/irritation	Causes skin irritation(Category 2)	
Serious eye damage/irritation	Causes serious eye irritation(Category 2)	
Skin sensitization	May cause an allergic skin reaction(Category 1)	
Respiratory sensitization	Based on available data, the classification criteria are not met	
Reproductive toxicity	Based on available data, the classification criteria are not met	
STOT-repeated exposure	Based on available data, the classification criteria are not met	
Aspiration hazard	Based on available data, the classification criteria are not met	
Germ cell mutagenicity	Based on available data, the classification criteria are not met	

12 Ecological information

| Acute aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic plants
Trichloroacetic acid	LC ₅₀ : 2500mg/L (96h)(Fish)	EC ₅₀ : 2000mg/L (48h)(Crustaceans)	No information available
tert-butyl methyl ether	LC ₅₀ :672mg/L (96h)(Fish)	EC ₅₀ : >120mg/L (48h)(Crustaceans)	ErC ₅₀ : >110mg/L (72h)(Algae)
Bromoacetic acid	LC ₅₀ :103mg/L (96h)(Fish)	EC ₅₀ : 42mg/L (48h)(Crustaceans)	ErC ₅₀ : 0.22mg/L (96h)(Algae)
Chloroacetic acid	LC ₅₀ : 72mg/L (96h)(Fish)	EC ₅₀ : 77mg/L (48h)(Crustaceans)	ErC ₅₀ : 0.16mg/L (72h)(Algae)
Dichloroacetic acid	LC ₅₀ : 2000mg/L (96h)(Fish)	No information available	ErC ₅₀ : 17mg/L (72h)(Algae)

| Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic plants
tert-butyl methyl ether	No information available	NOEC : 11mg/L(Crustaceans)	NOEC: >110mg/L(Algae)
Bromoacetic acid	NOEC : ≥100mg/L(Fish)	No information available	No information available
Chloroacetic acid	No information available	No information available	NOEC: 0.033mg/L(Algae)
Dichloroacetic acid	No information available	No information available	NOEC: 0.093mg/L(Algae)

| Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
Bromoacetic acid	Low	Low
Tribromoacetic acid	High	High

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| Bioaccumulative potential

Component	Bioaccumulative potential	Comments
Bromoacetic acid	Low	Log Kow=0.41
Tribromoacetic acid	Low	Log Kow=1.7109

| Mobility in soil

Component	log Koc	Remark
tert-butyl methyl ether	0.96	20 ℃
Chloroacetic acid	-0.14	20 ℃
Bromoacetic acid	1.51	20 ℃
Dichloroacetic acid	0.35	20 ℃
Trichloroacetic acid	0.00	20 ℃
Tribromoacetic acid	0.437	

13 Disposal considerations

| Disposal considerations

Waste chemicals	Before disposal should refer to the relevant national and local laws and	
	regulation. Recommend the use of incineration disposal.	
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot	
	and ignition source of fire. Return to supplier for recycling if possible.	
Disposal recommendations	Refer to section waste chemicals and contaminated packaging.	

Transport information

Label and Mark

Transporting Label



IMDG-CODE

UN number	1938
UN proper shipping name	BROMOACETIC ACID SOLUTION
Transport hazard class	8
Transport subsidiary hazard	None
class	
Packing group	ш
Marine pollutant (Yes or no)	No

IATA-DGR

UN number	1938
UN proper shipping name	BROMOACETIC ACID SOLUTION
Transport hazard class	8
Transport subsidiary hazard	None
class	
Packing group	ш

UN-ADR

UN number	1938
UN proper shipping name	BROMOACETIC ACID SOLUTION
Transport hazard class	8
Transport subsidiary hazard	None
class	
Packing group	ш

Transport in bulk according to IMO instruments

◆ Transport in bulk according to Annex II of MARPOL and the IBC code

Not Available

◆ Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Not Available

◆ Transport in bulk in accordance with the IGC Code

Not Available

Others

Precautions for transport

Transport vehicles should be equipped with the appropriate variety and quantity of fire equipment and emergency equipment leakage during transport. Before transport, should be preceded by checking whether container integrity, sealing. The transport unit must be placarded and marked in accordance with relevant transporting requirements.

15 Regulatory information

International chemical inventory

Component	Α	В	С	D	E	F	G	Н	I	J	K	L	М
tert-butyl methyl ether	√	√	√	√	√	√	√	√	√	√	√	√	√
Chloroacetic acid	√	√											
Bromoacetic acid	√	√	√	×	√	√	√	√	√	×	√	√	√
Dichloroacetic acid	√												
Trichloroacetic acid	√	√	√	√	√	√	√	√	√	√	√	√	√
Bromochloroacetic acid	×	×	×	×	×	×	×	×	×	×	×	√	√
Bromodichloroacetic acid	×	×	×	×	×	×	×	×	×	×	×	√	√
Dibromoacetic acid	×	√	√	×	×	×	×	×	√	×	×	√	√

Dibromomonochloroaceti c acid	×	×	×	×	×	×	×	×	×	×	×	V	1
Tribromoacetic acid	√	√		×	×	×	×	×	×	×	×		√

- [A] China Inventory of Existing Chemical Substances(IECSC)
- [B] European Inventory of Existing Commercial Chemical Substances(EC inventory)
- [C] United States Toxic Substances Control Act Inventory(TSCA)
- [D] Canadian Domestic Substances List(DSL)
- [E] New Zealand Inventory of Chemicals(NZIoC)
- [F] Philippines Inventory of Chemicals and Chemical Substances(PICCS)
- **[G]** Korea Existing Chemicals Inventory(KECL)
- [H] Australian. Inventory of Industrial Chemical (AIICS)
- [1] Japan Inventory of Existing & New Chemical Substances(ENCS)
- [J] Thailand Existing Chemicals Inventory(TECI)
- [K] Mexico National Inventory of Chemical Substances (INSQ)
- [L] Russia Inventory of Existing Substances (DRAFT)
- [M] Inventory of Existing Chemical Substances in Taiwan, China (TCSI)

List of Chemical Substances under International Conventions

Component	Α	В	С
tert-butyl methyl ether	×	×	×
Chloroacetic acid	×	×	×
Bromoacetic acid	×	×	×
Dichloroacetic acid	×	×	×
Trichloroacetic acid	×	×	×
Bromochloroacetic acid	×	×	×
Bromodichloroacetic acid	×	×	×
Dibromoacetic acid	×	×	×
Dibromomonochloroaceti c acid	×	×	×
Tribromoacetic acid	×	×	×

- [A] The Montreal Protocol on Substances that Deplete the Ozone Layer
- [B] Stockholm Convention on Persistent Organic Pollutants (POPs)
- [C] Rotterdam Convention on the prior informed consent procedure for certain hazardous chemicals and pesticides in international trade

US chemical inventory

Component	Α	В	С	D	E	F	G	Н
tert-butyl methyl ether	$\sqrt{}$	×	√	√	√	V	√	×
Chloroacetic acid	V	V	√	√	√	V	√	×
Bromoacetic acid	×	×	×	×	√	×	√	×
Dichloroacetic acid	×	×	×	×	√	×	√	√
Trichloroacetic acid	×	×	×	√	√	√	√	√
Bromochloroacetic acid	×	×	×	×	×	×	×	√
Bromodichloroacetic acid	×	×	×	×	×	×	×	V
Dibromoacetic acid	×	×	×	×	×	×	×	√
Dibromomonochloroacet	×	×	×	×	×	×	×	×

ic acid								
Tribromoacetic acid	×	×	×	×	×	×	×	×

- [A] US Clean Air Act (CAA)- Section 112, Hazardous Air Pollutants
- [B] US SARA 302- Extremely Hazardous Substance List
- [C] US CERCLA- Hazardous Substances List
- [D] US Massachusetts Right-to-Know Substance List
- [E] US New Jersey Right to Know Hazardous Substance List
- [F] US Pennsylvania Right to Know Hazardous Substance List
- [G] US New York City Right-to-Know Hazardous Substance List
- [H] US California Proposition 65 List

Note:

- " $\sqrt{}$ " Indicates that the substance included in the regulations.
- "x" No data or not included in the regulations.

16 Other information

Information on revision

Creation Date	2025/10/11
Revision Date	-
Reason for revision	-

Reference

- [1] IPCS: The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home.
- [2] IARC, website: http://www.iarc.fr/.
- [3] OECD: The Global Portal to Information on Chemical Substances, website: https://www.echemportal.org/echemportal/.
- [4] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple.
- [5] NLM: ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp.
- [6] EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/.
- $[7] \qquad \text{U.S. Department of Transportation: ERG, website: http://www.phmsa.dot.gov/hazmat/library/erg.} \\$
- [8] Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/.

Abbreviations and acronyms

CAS	Chemical Abstracts Service	UN	The United Nations
PC-STEL	Short term exposure limit	OECD	Organization for Economic Co-operation and Development
PC-TWA	Time Weighted Average	IMDG- CODE	International Maritime Dangerous Goods CODE
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer
DNEL	Derived No Effect Level	ICAO	International Civil Aviation Organization
PNEC	Predicted No Effect Concentration	IATA	International Air Transportation Association
NOEC	No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists
LC ₅₀	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD ₅₀	Lethal Dose 50%	NTP	National Toxicology Program
EC ₅₀	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
EC_X	Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative
Pow	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	Respiratory Protective Equipment
ED	Endocrine disruptor	HCS	Hazard Communication Standard

Disclaimer

This Safety Data Sheet (SDS) was prepared according to OSHA HCS-2024. The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume

responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.